DATAMINE

PRODUCTION ACCOUNTING

Production Accounting 1.14.0

Release Notes

Contents

Overview

Production Accounting is a comprehensive metallurgical accounting solution tailored for mining, mineral processing, smelting, and refining operations. It addresses key challenges by offering fully auditable data entry, calculations, and approvals. Production Accounting integrates data from various sources, such as assay data and moisture content from laboratory information management systems and mass, flow, or density from process control systems. Its flexible configuration meets diverse site and business requirements, ensuring an accurate, unified view of production data.

By eliminating the inefficiencies of multi-spreadsheet systems, Production Accounting enhances data integrity, enables secure data sharing, and supports informed decision-making. It allows site metallurgists to increase productivity and lower costs by solving processing deficiencies highlighted by concisely presented data.

Further Information

This document includes cumulative release notes for Production Accounting from version 1.7.0 and later.

For the complete Production Accounting documentation, see https://docs.dataminesoftware.com/ProductionAccounting.

Get Help with Production Accounting

Online product documentation for Production Accounting is available at https://docs.dataminesoftware.com/ProductionAccounting/.

For further information about installing or using Production Accounting, check your contract with Datamine to determine whether site-specific documentation was supplied to your site.

Datamine's commitment to customer service provides our customers with access to a skilled and responsive support team. The global customer support team ensures all customer questions and issues are addressed in a timely manner and escalated as required to ensure resolution.

You should always contact Datamine support if you have an issue. Do not contact individual members of Datamine for support because your issue may not be responded to in a timely manner if that person is unavailable.

If you are a licensed Production Accounting user, you can request support via the:

- Datamine Support Email support@dataminesoftware.com.
- Support Portal https://www.dataminesoftware.com/support/

We also welcome feedback about this documentation.

Production Accounting 1.14.0 Release Notes (April 2025)

Functionality

Mass Balancing

- The JKMetAccount balance engine has been directly integrated in Production Accounting so that it runs on modern technology and delivers improved stability. The engine's logic is unchanged but due to the updated technology, users may notice minor differences in mathematical results compared to the old engine.
- An issue has been fixed where the JKMetAccount balance engine did not trigger a rebalance when new data was imported that affected an in-progress balance.
- The JKMetAccount balance engine now detects new data relevant to an in-progress balance and automatically restarts to incorporate the updates.

Data Authorisation

- Data authorisation **Approve** (or **Sign Off**) screens display a warning message if the JKMetAccount statistical mass balance engine is processing balances that could affect the data being authorised. A **Reload** button allows users to refresh the screen and ensure that all balances and calculations are complete before approving or rejecting data.

Data Quarantine

- Quarantine email notifications were being sent for data that was automatically rejected due to the live data date or other configured quarantine rules, even though the data could not be released. Rejected data is now excluded from notifications, ensuring that emails are sent only for actionable quarantine data.

User Interface

- A login error affecting users with both an Active Directory account and a local Production Accounting account with the same user email has been fixed. Production Accounting now resolves the conflict, prioritises the user's Active Directory permissions, and logs a detailed event message in the database.

System Administration

- An issue where the **Max Rows** value was not correctly saved in the **Logsheet Recalculation Schedule** module settings has been fixed. The **Logsheet Recalculation Schedule** application module now starts by default when Production Accounting starts.

Configuration

- An additional Simple Mail Transfer Protocol (SMTP) configuration method is included for email notifications. The *SMTP* method includes optional settings to authenticate the sender account username and password and to enable secure communication using Transport Layer Security (TLS). See the **Email Notification Configuration** section of the Installation Guide.

- To help with configuration and troubleshooting of quarantine and business process email notifications, the **Description** for Production Accounting log entries includes identifiers for the related logsheet, process and/or email registration.

- Updated the class selector in the **DAL Browsing Palette** module settings to handle deprecated classes.

- Defects related to saving and modifying custom time interval definitions have been fixed.

- Uncaught exceptions are now handled better in the web application user interface.

Installation and Upgrades

- JKMetAccount installation has been improved:
  - Integration of the JKMetAccount balance engine into the core Production Accounting application simplifies installation and upgrade processes. The separate JKMetAccount Service is no longer required and can be disabled or deleted when upgrading. See the **JKMetAccount Installation** and **Upgrade Production Accounting** sections of the Installation Guide.
  - The new **AddJKMAUser** program in the installation package simplifies the creation of the initial user in the Datamine_PA_JKMA database. See the **Database Creation** section of the Installation Guide.
  - An issue with the **JKMA_DB_Install.sql** database script has been fixed.
- Production Accounting supports Active Directory authentication types, such as LDAP Signing, Sealing (using Kerberos) or Secure Sockets Layer (SSL), for user authentication. See the **Edit the Web.config file** section of the Installation Guide.
- The Production Accounting database scripts include collation and use simple logging by default.

Production Accounting 1.13.2 Release Notes (October 2024)

Installation

- Production Accounting 1.13.2 introduces initial updates to support daylight saving. A **Data Upgrade Tool** is included in the installation file package to upgrade business process and quarantine data for compatibility with daylight saving functionality. See the **Upgrade Production Accounting** section of the Installation Guide.

Functionality

- The logsheet and discrete unit user interfaces have been updated so that when a user presses the **Enter** key, the page does not reload and unsaved data entry is preserved.
- An issue has been fixed where logsheets with quarantined data displayed an error upon save if quarantine email notifications were enabled. This issue only affected Production Accounting environments configured prior to the introduction of the Configuration Design Matrix.

Production Accounting 1.13.1 Release Notes (August 2024)

Configuration

- The **Configuration Editor** supports HTML-formatted templates for business process email notifications.

Installation

- Production Accounting executables and dynamic link library (DLL) files have been signed with Datamine's digital signature.
- The **Email Notification Configuration** section of the Installation Guide includes additional information for how to register the Production Accounting application in the Microsoft Entra identity platform.

Functionality

- Error messages for the email notification functionality have been improved.
- Additional authentication and testing methods are supported for SMTP email notification configuration.
- The JKMetAccount mass balance engine has been improved to preserve the precision of numeric values imported from the database. Running existing balances with the updated mass balance engine may produce a different but more precise result, due to the improved precision of the imported data. See the **JKMetAccount Installation** section of the Installation Guide for how to implement the changes.
- The JKMetAccount database provides easier access to a full set of balance results that includes the *0* values not saved in the results table.

Logsheets

- Date selectors for shift, day, week, month, quarter and year time periods include left and right arrow buttons to select the previous or next period.

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> **Note:** For the week selector previous and next buttons to work as expected, the **Time Offset** must be configured as per the selected **Interval Type**.

- An **Initial Hourly Offset** can be configured to define a logsheet's default display date or period; for example, to default logsheets to yesterday's date. The offset is configured per logsheet (in **Module Settings**) and is relative to the user's current web browser date and time. A negative value configures an offset to a previous period. For example, *-12* hours defaults to the previous shift and *-24* hours defaults to the previous day. A month offset may be useful when lab assay wait times delay the monthly data entry and authorisation processes. For example, a month logsheet with an offset of *-72* displays data from the previous month when viewed during the first three days of the current month.

- To improve the experience of interpreting calculation traces, the following enhancements have been made to the **Calculation Tracer**:

    - The expandable **Attribute** nodes in the trace output include the **Attribute Description** and **Calculation Description**.

    - Users can select the **Use Description** checkbox to display the descriptions for attribute, set and calculation tag components in the trace output. The **Use Description as Default** setting in the Calculation Tracer module settings controls whether the **Use Description** checkbox is selected by default.

Data Authorisation

- Emails can be sent to notify users when a data authorisation business process is rejected. Rejection email notifications can be configured to include the log time, a link to the required **Authorise** screen in the Production Accounting web application, and the user's rejection comments.

> **Note:** Configuration of data authorisation rejection notifications requires Datamine consultant support. Please contact our support team to arrange for this functionality to be configured when you upgrade.

System Administration

- Permissions updates for 'PA Core' functionality take effect without a manual token refresh. The token refresh icon has been removed from the user interface.

- The Production Accounting 1.13.1. initial setup script assigns *Edit* permissions for email notification configuration by default to the Admins group, including the Default Administrator user. See the **Email Notification Configuration** section of the Installation Guide.

Production Accounting 1.13.0 Release Notes (April 2024)

Documentation

- Expanded documentation for Production Accounting is available online at https://docs.dataminesoftware.com/ProductionAccounting/. Help topics for Production Accounting users are now included, with information and activity steps for the user interface, logsheet and discrete unit data entry, data upload and export, data authorisation and quarantine, reports, and system administration. The online help provides generic activity steps for a standard Production Accounting configuration. Custom documentation (if supplied to your site) has additional site-specific content.

- The **Help** link in the top corner of the Production Accounting web client screen opens the online documentation rather than an embedded help file.

System Requirements

Application Server

- Microsoft Windows Server 2022 is supported.

- Microsoft Windows Server 2016 is no longer recommended.

- The ASP.NET Core 8.0 Runtime Windows Hosting Bundle including ASP.NET Core Module (ANCM) for IIS is required.

Database Server

- Microsoft Windows Server 2022 is supported.

- Microsoft Windows Server 2016 is no longer recommended.

- Microsoft SQL Server 2022 is supported, with supported compatibility level from 130.

- Microsoft SQL Server 2016 is no longer recommended.

Production Accounting Clients

- Microsoft Windows 11 is a supported operating system.

Installation

- As part of an ongoing technical upgrade, the Production Accounting application functionality originally built on Microsoft .NET Framework is being rebuilt in Microsoft .NET Core. Production Accounting 1.13 includes the first release of .NET Core functionality. A new **PA Core** folder is included in the release package for installation on the Application Server. The Installation Guide includes the required activities to install and configure PA Core.

- Functionality is included to enable automated email notifications from Production Accounting. Currently, this functionality is available for quarantine and authorisation notifications only, but will be extended to other notification types in future releases. The Installation Guide includes the required activities to enable email notifications.

- The Installation Guide includes additional activities for configuring SSL certificates on the Database Server and the Application Server.

Configuration

- Improvements have been made to the following configuration functionality:
  - The validation of CalcNet link aggregations.
  - The validation of the CalcNet expressions used in calculations, link aggregations and validation rules.
  - The validation of column names in discrete unit staging sets.
  - Error messages for validation rules during Production Accounting start up.

Functionality

User Interface

- Numeric values are displayed and read according to the language configured in the user's web browser.

Logsheets

- In the **Calculation Tracer**, you can expand an **Adjustment** tag for a commodity to view the related commodity log entries and transaction quantity data.
- To ensure accuracy when reading back the **Trace Date**, the **Calculation Tracer** uses a primary date format of *yyyy-mm-dd* rather than a month name.

Discrete Units (Batch Tracking)

- Improved data locks to prevent discrete unit data overrides.
- The transaction data entry user interface refreshes a row before it is edited. This reduces the chance of data overrides if changes were made elsewhere after the user first loaded the screen.
- The transaction data entry user interface tries for 30 seconds to lock a row that a user wants to edit. If the row cannot be locked because it is in use by another system process, a prompt displays that asks the user to try again later.
- If a user attempts to update a transaction row that was deleted (by another user or in another window) before the user's updates were processed, the updates are ignored to prevent the creation of a failed transaction. Subsequent updates to the row are processed as normal.

Data Authorisation

- Data authorisation **Approve** (or **Sign Off**) screens display a warning message if items are still pending processing in the calculation queue. A **Reload** button is also included so users can refresh the screen to ensure pending items have cleared before approving data.

- The **Cascade Wait** feature reloads data before an authorisation business process completes to ensure the data is current.

- Emails can be sent to notify users that a data authorisation business process is awaiting the next level of approval.

  Note: Configuration of authorisation email notifications requires Datamine consultant support.

Data Quarantine

- **Quarantine Browser** screens include additional columns for tag identification:
  - The **Discrete Unit Quarantine Browser** includes a **Display Name** column.
  - The **Logsheet Quarantine Browser** includes **Logsheet Section**, **Logsheet Sub Section**, **Display Name** and **Unit Code** columns.

- An issue that affected quarantined discrete unit data has been fixed. If discrete unit data held for review in the **Quarantine Browser** relates to a transaction row that has since been deleted, the application now handles the data without displaying an error. Even if a user accepts the data, the data is listed as *Rejected* because the transaction row to which it relates no longer exists.

- To improve the handling of quarantined data, dates for *Held* and *Rejected* data are stored in a standard format, regardless of the language or server culture.

- The **Quarantine Browser** displays a message when all of the quarantined data that a user attempted to accept or reject is no longer available for review in the quarantine user interface.

- Emails can be sent to notify users that quarantined data is pending review. Emails are automated from custom-configured message templates and include a summary of the quarantined data and a link to the **Quarantine Browser**.

  Note: Configuration of quarantine email notifications requires Datamine consultant support.

Production Accounting 1.12.4 Hot Fix Release Notes (June 2023)

Hot Fix 2

- A Calculation Tracer issue that affected *Shift* and *Irregular* periods has been fixed.

Hot Fix 1

- Batch Tracking recovers from timeouts and deadlocks.
- To minimise timeouts and deadlocks, calculation queue processing is paused while Batch Tracking data is processed.
- The Calculation Tracer includes an unformatted number to enable you to see a tag's exact value.
- Updated the Logsheet and Calculation Tracer user interfaces to improve handling of periods with negative offsets.
- System requirements for Production Accounting include a recommended minimum memory of 32 GB RAM for both the Application Server and Database Server.

Production Accounting 1.12.4 Release Notes (April 2023)

- Microsoft Edge is the only supported browser.
- The Installation Guide includes steps for how to manage certificates with Microsoft Edge.
- After an upgrade, the Logging Service needs to be reregistered with the Application log in Windows Event Viewer for logging messages.
- Default configuration in the Bootstrap.config file has been updated to prevent calculation queue task merging, which was sometimes causing propagation issues.
- Resolved batch tracking processing issue related to the commodity logs getting out sync and improved batch tracking processing performance.
- Comment data can be uploaded using the Logsheet Service.
- Prevented superfluous processing when using the Transaction Service and partial data is sent to a transaction definition.
- Tag unit code length has been increased to 128 characters to allow for longer unit descriptions.
- Enabled Batch Tracking commodity sets to be aggregated from CalcNet without needing a Lock attribute.

Production Accounting 1.12.3 Release Notes (July 2022)

- Resolved an issue where Active Directory (AD) users were not found in Production Accounting when using the Logsheet Service if they were not already logged in.

- User authorisation was added to the Logsheet Service.

- Implemented anti-forgery tokens while submitting forms and POST requests or server side calls.

- User sessions are tracked so that if a user starts a new session, their previous session is deactivated.

- Published data cannot be modified via the Logsheet Service.

Production Accounting 1.12.2 Release Notes (May 2022)

- Documentation for Production Accounting is available online at https://docs.dataminesoftware.com/ProductionAccounting/.

- A new required configuration argument has been added to the **Data Abstraction Layer** module called **Live Date Date**. Any data changes or recalculations made before this date are rejected or prevented.

  > **Important:** When doing an upgrade to this version, use the **Configuration Editor** to redeploy the configuration. The redeployment generates additional configuration to support this new functionality.

- The **Logsheet** module has a new setting called **Display LogTime Day/Time Offset**, which enables an offset to be applied to the **LogTime** before it is displayed on the screen. For customers who have months beginning in the previous month, this offset enables the intended month name to be displayed rather than the month of the starting date.

- When loaded from the cache, business processes refresh their data to ensure that the data is current.

- Production Accounting is moving towards using a case-sensitive database. As part of this change, 'LogSheetData' is now 'logSheetData' and this must be updated in the **Data Table** settings for logsheets in the Production Accounting **Configuration Editor**.

- Improved cross-site request forgery (CSRF) protection by adding the **Same Site** cookie flag.

- The Installation Guide includes steps for how to grant required permissions so that the services can access their message queues. These steps are required if the message queues are created by running the services from the command line.

- The Installation Guide includes steps for how to grant required permissions so that the JKMA Service can write log files.

- The Installation Guide includes steps for how to configure Production Accounting and its services if using the Network Service account instead of a domain account.

- The frequency with which the Logging Service may report the same error has been reduced to once per 2 minutes to prevent the same message flooding the queue as it retries and fails.

- An invalid set ID in the **recalcScheduler.config** file was causing a crash that was logged as a poison message. Production Accounting now logs that the set ID does not exist and continues to the next set ID.
- Exception error messages thrown by the **Logsheet Recalculator Scheduler** are logged correctly instead of becoming a poison message in the MSMQ queue.
- If a user name includes symbols such as quotation marks or angle brackets, the **Audit** log did not display the user name. Encoding was added to enable the display of the user name.
- When configuring JKMA mappings in the **Configuration Editor**, you can use link aggregations for equipment parameters and switch fit values.
- Improved quarantine rule validation by flagging conflicting rules.

Production Accounting 1.12.1 Release Notes (September 2021)

- .NET Framework 4.8 is required on the Application Server.

- Fixed a threading issue causing data loss in the Transaction Service when multiple transactions definitions were mapped to a single logsheet.

- Modified the Windows Communication Framework (WCF) components of Production Accounting to be fault tolerant, so that they automatically restart if they enter a faulted state. If the Logging Service is unable to log messages, you will be able to check service status via the Windows Event Viewer.

  See the Installation Guide to steps to register the Production Accounting Portal and services with the Application log in Windows Event Viewer for logging messages.

- Log messages and data event messages can be recovered from dead-letter and poison WCF message queues. WCF configuration has been updated to include custom dead-letter queues and poison message handling. The time for a message to live on a queue has been increased from 1 day to 3 days before the message expires and moves to the dead-letter queue.

  See the Installation Guide for how to configure and run the recovery service.

- The Quarantine Summary View has been updated to include a *Quarantine View Mode* setting. This setting allows the module to show only quarantined data that matches the view mode. For example, if configured for only logsheet data, then it only shows logsheet quarantine rules and takes you to the logsheet-specific Quarantine Browser. The count of the number of items quarantined has been modified to count the individual items of each quarantined event, rather than the number of events.

- Improved cross-site scripting (XSS) protection.

- Values sent to Production Accounting are converted to their expected type for quarantine comparison to prevent incorrect change detection.

- Resolved the issue that prevented the correction of invalid data being sent to Production Accounting due to data locks not being released correctly when invalid data was first sent.

- Prevented data which was the wrong data type from being quarantined. Error message are displayed instead; for example, when sending text to a number field.

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- Prevented continuous popup alert windows on logsheet input validation and made allowance for exponential notation.

- Improved batch tracking validation in the Configuration Editor.

- The Alert Service has been removed.

Production Accounting 1.12.0 Release Notes (May 2021)

System Requirements

- Windows Server 2019 and Microsoft Edge are supported.

Upgrades

- Production Accounting includes built-in functions for RANK, NRANK, NRANKNZ, NAVGNZ and AVGNZ. If any of these were in your configuration as custom functions, they must be removed before upgrading.

Security

- The Production Accounting Installation Guide includes configuration information for using Secure Sockets Layer (SSL) and secure integration with IMS Integration Hub and MineMarket. The Installation Guide also includes configuration information for HTTP Strict Transport Security (HSTS) and redirection.
- HTTP errors redirect to a custom error page.
- Secure HTTPOnly cookies are enabled.
- To improve security, excessive information in the Production Accounting webpage response headers has been removed.
- Protection from brute force logins was added.
- Protection from cross-site scripting attacks was improved.

Functionality

- Batch tracking data can be quarantined and staging sets can be locked as part of a business sign-off. This lock prevents the processing of new data entered in a locked time period.
- Different operating modes have been enabled in the Quarantine Browser: *Normal*, *Logsheets Only* or *Batch Tracking Only*. All logsheets can be viewed

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at once in the *Logsheets Only* mode. Quarantined events can be sorted by event time or log time. Quarantined events are filtered by event time and can be filtered to match a selected log time, or from a selected log time onwards. Confirmation dialog boxes can be enabled for either accepting or rejecting items.

- Production Accounting records the user who accepted or rejected data from Production Accounting. Standard reports have been updated to display this information.
- Dynamic validation messages are supported in sign off screens.
- The **Date Picker Time Offset** setting was restored to the Transaction Import Manager.
- The Data Process Manager includes an **Interval Type** module setting, which is used for the **Time Format Control**.
- Validation has been improved in the Configuration Editor.

Defect Fixes

- A batch tracking issue has been resolved where the date offset was not being applied to transaction start dates that only showed the date and not the time.

Production Accounting 1.11.6 Hot Fix Release Notes (December 2020)

- Plant Logsheets error handling has been updated to support the PA Container application.

Production Accounting 1.11.6 Release Notes (October 2020)

- Production Accounting services can be registered with a domain account instead of the Network Service account. Using a domain account works with default WCF security.

- The Production Accounting release package includes a **PA Container** folder with the installer and documentation for the Production Accounting desktop application. This application is for customers who use custom flash components of Production Accounting. Running Production Accounting inside this desktop application will allow these customers to continue using Production Accounting after support for Macromedia Flash is discontinued.

- The Data Process Manager includes a display offset setting.

- Data is no longer quarantined if it is the same as the latest quarantined data.

- Data events are not fired if data was sent to Production Accounting using the Logsheet Service but all the changes were quarantined.

- Improved JKMetAccount stability when there are database connection issues.

- A performance issue for discrete units with child discrete units has been resolved.

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Production Accounting 1.11.5 Release Notes (July 2020)

- Business processes have had performance improvements with added thread safety to prevent unexpected results. The number of times the business processes are triggered has been reduced to prevent excessive processing. Better use of the cache reduces the number of calls from the database. Attempts to interact with an archived business process are prevented. When the Process System module interacts with a business process, the system detects if the process is corrupt and logs it.

- The Batch Tracking Transaction user interface no longer gives an error when there is a different number of rows returned after an edit.

- The Batch Tracking Transaction user interface no longer crashes if a calculation returns no result.

- Quarantine Summary error messages have been improved for when a user does not have access to the summary or if a Quarantine Browser module has not been configured.

Production Accounting 1.11.4 Release Notes (February 2020)

- Releasing data from quarantine for logsheets with a different span and quanta period type saves to the correct row in the logsheet.
- The Logsheet Service supports user comments and user names when uploading data.
- The Logsheet Downloader functionality has been restored.
- Permission changes in the Permission Editor save correctly to a file.
- Business Process logsheet data stays synchronised with CalcNet.

Production Accounting 1.11.3 Release Notes (October 2019)

- DAL Calculated Columns save correctly in the database when the related row is saved.

- Batch Tracking support is restored with a new user interface (UI) and enhancements to work with the improved CalcNet.

- The Plant Logsheets installation scripts have been updated.

- An issue has been fixed with Plant Logsheets adding an unnecessary delay when inserting rows in the Furnace Logsheet.

- General module updates have been made to improve support for improved CalcNet.

- The JKMA business process transfer feature now always applies offset.

- The default logging settings are no longer verbose and excessive business processes audit messages have been removed.

- The Business Process audit history is paginated in the UI to cater for large volumes of audit history.

- The new portal UI menu supports Internet Explorer 11.

- Configurations that use Batch Tracking can contain more than one area in the configuration editor.

- Default configuration files, database names, service names and service log files have been updated to reflect Datamine's acquisition of Production Accounting.

- Additional defect fixes and enhancements.

Production Accounting 1.11.2 Release Notes (October 2018)

- The Transaction Import Manager user interface module has been updated to work with the Time Service.
- The Plant Logsheet installation package has been updated.
- Plant Logsheets use the PA virtual directory in Internet Information Services (IIS).

Production Accounting 1.11.1 Release Notes (October 2018)

Improved database access performance and stability.

Production Accounting 1.11.0 Release Notes (June 2018)

System Requirements

- Microsoft Windows 2016 is supported for the Application Server and the Database Server.
- Microsoft SQL Server 2016 is supported for the Database Server.
- Microsoft Windows 10 is supported for the Clients.

Upgrades

- The time format control list setting in the Data Process Manager now stores the name of the component rather than the assembly qualified name in the database. Run the **Portal Upgrade 1.10.0 to 1.11.0.sql** script to convert from assembly qualified class names to the component name.
- The **Portal Upgrade 1.10.0 to 1.11.0.sql** script also removes some Data Abstraction Layer (DAL) classes that are no longer required for standard Production Accounting installations.

Functionality

- The Permissions Editor supports updating large numbers of permissions.
- The Permissions Editor has been modified to handle long-running uploads and save more quickly.
- The stability of the calculation engine stability (CalcNet) has been improved by preventing CalcNet threads from working on the same set, which reduces the likelihood of them blocking each other.
- Timeouts for adding and removing items in the calc queue can be customised in a bootstrap argument for the Cascade Manager. This can decrease the waiting time caused by a deadlock before recovery can take place. The default timeout has been changed from 30 seconds to 15 seconds.
- Enhancements have been made in the Plant Logsheets module.
- Performance improvements have been made for business processes.

- The Logsheet Recalculator Scheduler no longer runs any missed run times at startup, which reduces system load on startup. Any required recalculations that cannot wait for the next scheduled run time can be recalculated manually.

Additional defect fixes.

Production Accounting 1.10 Release Notes

System Requirements

- Microsoft SQL Server 2014 is supported.
- .NET Framework 4.5.1 or later is required on the Application Server.
- Internet Explorer 11 is the only supported browser.

Installation

- The Installation Guide recommends a simplified and more secure folder structure.
- Default values in service configuration files match the recommended folder structure.
- Bindings have changed in the web.config file when using IMS Integration Hub with Production Accounting.
- The bootstrap.xml file has been replaced with the bootstrap.config file for better security.
- The Downtime Manager is set to autostart by default in the bootstrap.config.
- The bootstrap.config file includes default configuration of retry cycles for the Cascade Manager.
- The scripts to create the JKMetAccount database tables, and related tables in the ABB_PA_Data database, have been updated to simplify installation steps.

Upgrades

- The database schema has changed and running an upgrade script is required for the ABB_PA_Services database.
- The Installation Guide includes further information about the recommended upgrade procedure.

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Functionality

- The new Calculation Tracer enables you to perform detailed validation of calculations, by displaying each value that has been used, including fine-grained batch-tracking transactional data.

- The performance of the calculation engine (CalcNet) has been optimised to resolve propagation issues through transactional and multi-threaded improvements.

- The Data Process Manager has been improved to prevent errors when the user interface state does not match the system state.

- The Batch Tracking user interface has been updated for compatibility with Internet Explorer 11.

- Commodity logsheets have been deprecated, except in Batch Tracking, where they have limited usage. The functionality of commodity logsheets has been replaced with Slider tags for roll-over of material balances for a new period.

Configuration

- The Configuration Design Matrix (CDM) Processor can be made available to upload and make changes to the Production Accounting configuration. The CDM Processor converts configuration data from Excel into XML and provides better validation of data entry. Please contact your Datamine representative for training in the use of the CDM Processor.

Additional defect fixes.

Production Accounting 1.9.1 Release Notes

Defect fixes and performance improvements only.

Production Accounting 1.9 Release Notes

- Rebranding as an ABB product includes an updated user interface and a change of product name to Production Accounting.
- Microsoft Windows Server 2012 R2, Microsoft SQL Server 2012, and Internet Explorer 9, 10, and 11 are supported.
- Grid controls have been updated for improved compatibility with Internet Explorer.
- Plant Logsheet functionality is part of core product functionality.
- Additional defect fixes.

Production Accounting 1.8 Release Notes

Production Accounting shares some common components with another ABB product called Assay Management. The two products share one version number sequence. Version 1.8 included changes primarily focused on Assay Management. The changes in Production Accounting version 1.8 were primarily to improve compatibility with current browsers and to bring forward changes made in 1.7 that addressed issues reported by customers. There was no public release of Production Accounting 1.8; therefore, version 1.9 is the public release of Production Accounting after 1.7.

Production Accounting 1.7 Release Notes

- Logsheet SOAP Service data logging can be disabled.
- Batch Tracking functionality is enabled.
- Additional defect fixes.

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Datamine enables efficient and sustainable mining through the application of world-leading technology and services.

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